

Matteo LOTITO

PERSONAL INFORMATION:

NAME Matteo Lotito
DATE OF BIRTH 01 March 1989
GENDER Male
ADDRESS 1 Gwanak-ro, Gwanak-gu, BK Residence Halls, B321, 08826 Seoul, South Korea
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EDUCATION

AUGUST 2018 PhD in PHYSICS
University of Cincinnati
GPA: 4.0/4.0

NOVEMBER 2013 Laurea Magistrale in Fisica (Master of Science in PHYSICS)
University of Rome “La Sapienza”
110/110 *summa cum laude* | Curriculum in theoretical physics

NOVEMBER 2011 Laurea Triennale in Fisica (Bachelor of Science in PHYSICS)
University of Rome “La Sapienza”
110/110 *summa cum laude*

EXPERIENCE

OCTOBER 2022 - CURRENT Research Fellow (Postdoc)
Center for Theoretical Physics
Seoul National University

SEPTEMBER 2018 - OCTOBER 2022 Postdoctoral Research Associate
Amherst Center for Fundamental Interactions
University of Massachusetts Amherst

Teaching

INSTRUCTOR First year seminar on special relativity (2019),
1st, 2nd year labs (MATHEMATICA) for majors (2015-18);
TEACHING ASSISTANT Recitations and labs for a variety of introductory physics courses (2013-15);
TUTOR Physics GRE exam for undergraduate students (2016),
mathematics and physics for high school and college students (2013-16).

Extracurricular

ORGANIZER ACFI workshop “Theoretical Tests of the Landscape” (2023),
Summer school “Physical Mathematics of Quantum Field Theory” (2022),
ACFI workshop “Theoretical Tests of the Swampland Conjecture” (2019);
PRESIDENT Physics Graduate Student Association, University of Cincinnati (2015-2018).

AWARDS AND RECOGNITIONS

- MAY 2020 Recognition as CIRTL Associate;
- FEBRUARY 2018 finalist for the Presidential Medal for Graduate Student Excellence award, Graduate School, University of Cincinnati;
- FEBRUARY 2017 finalist for the Presidential Medal for Graduate Student Excellence award, Graduate School, University of Cincinnati;
- MAY 2016 Mary J. Hanna Fellowship, Department of Physics, University of Cincinnati, support for the 2016-17 academic year;
- MARCH 2016 University Research Council (URC) Graduate Student Fellowship, University of Cincinnati, support for Summer 2016.

SELECTED TALKS AND PUBLICATIONS

P. C. Argyres, M. Lotito, M. Weaver

Vertex algebra of extended operators in 4d N=2 superconformal field theories

NOVEMBER 2022, submitted in JHEP (<http://arxiv.org/abs/2211.04410>)

- MARCH 2023 Invited talk Korea Institute for Advanced Study
- FEBRUARY 2023 Invited talk King's College London
- FEBRUARY 2023 Invited talk Queen Mary University of London
- JUNE 2022 Invited talk Durham University
- JUNE 2022 Invited talk Imperial College London

I. García Etxebarria, B. Heidenreich, M. Lotito, A. K. Sorout

Deconfining N=2 SCFTs, or the Art of Brane Bending

NOVEMBER 2021, published in JHEP 03 (2022) 140

- MAY 2022 Invited talk Oxford University (online)

P. C. Argyres, M. Lotito, Y. Lü, M. Martone

Geometric constraints on the space of N=2 SCFTs

I: physical constraints on relevant deformations

MAY 2015, published in JHEP 02 (2018) 001

II: Construction of special Kähler geometries and RG flows

DECEMBER 2015, published in JHEP 02 (2018) 002

III: enhanced Coulomb branches and central charges

SEPTEMBER 2016, published in JHEP 02 (2018) 003

Expanding the landscape of N=2 rank 1 SCFTs

FEBRUARY 2016, published in JHEP 05 (2016) 088

- NOVEMBER 2017 Invited talk Princeton University

- OCTOBER 2017 Invited talk University of California San Diego

- OCTOBER 2017 Invited talk California Institute of Technology

SKILLS

PROBABILITY & STATISTICS

MATHEMATICA, OFFICE SUITE, LATEX (Advanced)

C, HTML (Good)

PYTHON, C++, GITHUB (Basic/Intermediate)

LANGUAGES

ITALIAN, ENGLISH, SPANISH (Fluent)

FRENCH, PORTUGUESE (Limited working proficiency)